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This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A method for providing pre-processed data for the training of mining models from data set training data comprising at least one set of case data, each set of case data of said sets at least one set of case data comprising a stored value for at least one variable from among a set of at least one variable, comprising:

determining at least one mining structure variable from among said set of at least one variable;

for each <u>set of</u> case <u>data</u>, retrieving a stored value for each of said at least one mining structure variables from said data set training data;

performing mining model initial processing on said retrieved values; and storing the results of said mining model initial processing.

2. (Currently Amended) The method of claim 1, where wherein said step of determining at least one mining structure variable from among said set of at least one variable comprises:

accepting creation operation data comprising data comprising the identity of said mining structure variables.

- 3. (Currently Amended) The method of claim 2, where wherein said at least one mining structure variable comprises a continuous variable, where wherein said creation operation data comprises an indication regarding discretization of said continuous variable, and where wherein said step of performing mining model initial processing on said retrieved values comprises discretizing said continuous variable according to said indication.
- 4. (Currently Amended) The method of claim 3, where wherein said indication comprises an indication of a number of buckets into which said continuous variable should be discretized.

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5. (Currently Amended) The method of claim 3, where wherein said indication comprises an indication of sub-ranges into which said continuous variable should be discretized.

- 6. (Currently Amended). The method of claim 1, where wherein said stored results are associated with at least one mining model, and where wherein each of said at least one mining model is trained using said stored results.
- 7. (Currently Amended) A <u>tangibly embodied</u> computer readable medium comprising computer executable modules having computer executable instructions, said modules providing pre-processed data for the training of mining models from data set training data comprising at least one set of case data, each of said sets of case data comprising a stored value for at least one variable from among a set of at least one variable, said computer executable modules comprising:

a mining structure variable determination module for determining at least one mining structure variable from among said set of at least one variable;

a data set training data retrieval module for each case, retrieving a stored value for each of said at least one mining structure variables from said data set training data;

an initial processing module for performing mining model initial processing on said retrieved values; and

a storage module for storing the results of said mining model initial processing.

- 8. (Currently Amended) The computer readable medium of claim 7, where wherein said mining structure variable determination module accepts creation operation data comprising data comprising the identity of said mining structure variables.
- 9. (Currently Amended) The computer readable medium of claim 8, where wherein said at least one mining structure variable comprises a continuous variable, where wherein said creation operation data comprises an indication regarding discretization of said continuous variable, and where wherein said initial processing module discretizes said continuous variable according to said indication.

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10. (Currently Amended) The computer readable medium of claim 9, where wherein said indication comprises an indication of a number of buckets into which said continuous variable should be discretized.

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- 11. (Currently Amended) The computer readable medium of claim 9, where wherein said indication comprises an indication of sub-ranges into which said continuous variable should be discretized.
- 12. (Currently Amended). The computer readable medium of claim 9, where wherein said stored results are associated with at least one mining model, and where wherein each of said at least one mining model is trained using said stored results.
- 13. (Currently Amended) An application programming interface tangibly embodied in at least one computer readable storage medium for use in connection with providing pre-processed data for the training of mining models from data set training data comprising at least one set of case data, each of said sets of case data comprising a stored value for at least one variable from among a set of at least one variable, wherein said application programming interface receives as input creation operation data comprising data comprising the identity of mining structure variables from among said set of at least one variable; for each case, retrieves a stored value for each of said at least one mining structure variables from said data set training data; performs mining model initial processing on said retrieved values; and stores the results of said mining model initial processing.
- 14. (Currently Amended) The application programming interface of claim 13, where wherein said at least one mining structure variable comprises a continuous variable, where wherein said creation operation data comprises an indication regarding discretization of said continuous variable, and where wherein said application programming interface discretizes said continuous variable according to said indication.

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15. (Currently Amended) The application programming interface of claim 14, where wherein said indication comprises an indication of a number of buckets into which said continuous variable should be discretized.

- 16. (Currently Amended) The application programming interfaceof interface of claim 14, where wherein said indication comprises an indication of sub-ranges into which said continuous variable should be discretized.
- 17. (Currently Amended) The application programming interface of claim 13, wherein a said query is sent and said stored results are retrieved via at least one network.
- 18. (Currently Amended) The application programming interface of claim 13, wherein where said stored results are associated with at least one mining model, and wherein where each of said at least one mining model is trained using said stored results.
- 19. (Currently Amended) A system for providing pre-processed data for the training of mining models from data set training data comprising at least one set of case data, each of said sets of case data comprising a stored value for at least one variable from among a set of at least one variable, said system comprising:

an application programming interface <u>implemented at least in part by a computing device</u>, said application programming interface (a) receiving as input creation operation data comprising data comprising the identity of mining structure variables from among said set of at least one variable; (b) for each case, retrieving a stored value for each of said at least one mining structure variables from said data set training data; (c) performs mining model initial processing on said retrieved values; and (d) stores the results of said mining model initial processing; and

a database for storing said data set <u>training data</u>, operably connected with said application programming interface, and for returning said stored values to said application programming interface.

20. (Original) A system for providing pre-processed data for the training of mining models from data set training data comprising at least one set of case data, each of said sets of

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said sets of case data comprising a stored value for at least one variable from among a set of at least one variable, said system comprising:

determination means for determining at least one mining structure variable from among said set of at least one variable;

retrieval means for each case, retrieving a stored value for each of said at least one mining structure variables from said data set training data;

initial processing means for performing mining model initial processing on said retrieved values; and

storage means for storing the results of said mining model initial processing.

21. (Currently Amended) The system of claim 20, where wherein said determination means comprises:

data acceptance means for accepting creation operation data comprising data comprising the identity of said mining structure variables.

- 22. (Currently Amended) The system of claim 21, where wherein said at least one mining structure variable comprises a continuous variable, where wherein said creation operation data comprises an indication regarding discretization of said continuous variable, and where wherein initial processing means comprises discretization means for discretizing said continuous variable according to said indication.
- 23. (Currently Amended) The system of claim 22, where wherein said indication comprises an indication of a number of buckets into which said continuous variable should be discretized.
- 24. (Currently Amended) The system of claim 22, where wherein said indication comprises an indication of sub-ranges into which said continuous variable should be discretized.
- 25. (Currently Amended) The application programming interface of claim 22, where wherein said stored results are associated with at least one mining model, and where wherein each of said at least one mining model is trained using said stored results.

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26. (Original) A method for the training of a mining model from data set training data comprising at least one set of case data, each of said sets of case data comprising a stored value for at least one variable from among a set of at least one variable, comprising:

determining at least one mining structure variable from among said set of at least one variable;

for each case, retrieving a stored value for each of said at least one mining structure variables from said data set training data;

performing mining model initial processing on said retrieved values; storing the results of said mining model initial processing in a mining structure; and training said mining model using said stored results.

- 27. (Currently Amended) The method of claim 26, further comprising: storing connection link data indicating that said mining model has been trained on data from said mining structure.
- 28. (Original) The method of claim 26, further comprising:
 accepting a drill through query for specified data from said mining structure and providing said specified data.
- 29. (Currently Amended) The method of claim 26, where wherein additional mining models are associated with said mining structure, and where wherein said method further comprises:

training each of said additional mining models using said stored results.

- 30. (Currently Amended) The method of claim 26, where wherein said mining structure is treated as a first class object in a database.
- 31. (Currently Amended) A <u>tangibly embodied</u> computer readable medium comprising computer executable modules having computer executable instructions, said modules training a mining model from data set training data comprising at least one set of case data, each of said sets of case data comprising a stored value for at least one variable from among a set of

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at least one variable, said modules comprising:

a mining structure variable determination module for determining at least one mining structure variable from among said set of at least one variable;

a data set training data retrieval module for each case, retrieving a stored value for each of said at least one mining structure variables from said data set training data;

an initial processing module for performing mining model initial processing on said retrieved values;

a storage module for storing the results of said mining model initial processing; and a training module for training a mining model using said stored results.

32. (Currently Amended) The computer readable medium of claim 31, said modules further comprising:

connection <u>link</u> data storage module storing connection <u>link</u> data indicating that said mining model has been trained on data from said mining structure.

33. (Original) The computer readable medium of claim 31, said modules further comprising:

drill through module for accepting a drill through query for specified data from said mining structure and providing said specified data.

- 34. (Currently Amended) The computer readable medium of claim 31, where wherein additional mining models are associated with said mining structure, and where wherein said training module further trains each of said additional mining models using said stored results.
- 35. (Currently Amended) The computer readable medium of claim 31, where wherein said mining structure is treated as a first class object in a database.